

Re: I'm designing a Thumb Drive

Source: <http://sci.tech--archive.net/Archive/sci.electronics.design/2008-01/msg01463.html>

- *From:* Martin Brown <|||newspam|||@nezumi.demon.co.uk>
 - *Date:* Thu, 10 Jan 2008 01:42:55 -0800 (PST)
-

On Jan 10, 6:16 am, ChairmanOfTheBored <RUBo...@xxxxxxxxxxxxxxxx>
wrote:

On Wed, 9 Jan 2008 16:55:21 -0800 (PST), "www.interfacebus.com"

<Interfacebus.Engin...@xxxxxxxx> wrote:

Who manufacturers or sells USB style shells forthumbdrives. I've been looking around but can't find anything.

I'll fab the USB interface and Flash memory on a CCA, but I need a case to put it in. Who make thos cases? A Plastic or Metal case would be ok. The more links I get the better. This message was cross-posted.....

You're never going to beat the leaders of the industry at this game.

<http://www.corsairmemory.com/products/survivor.aspx>

<http://www.corsairmemory.com/products/voyager.aspx>

26MB/s write, 34MB/s read.

Good luck... you'll need it.

I previously asked this question on comp.system.ibm.pc.storage and got zero answers, but since this newsgroup contains a large number of computer savvy folk with the right sort of kit and an inclination to test things as opposed to believing the manufacturers marketing hype. Here is a repost:

I wonder if anyone can point me at reliable benchmarks of measured flash memory performance?

Or recommendations based on first hand experience with the larger

Re: I'm designing a Thumb Drive

drives. 8GB, 16GB.

I found the following URL with some older drives in the 1–2GB range tested with h2benchw 3.6, but AFAICT there is very little else out there with real measured performance figures. I am interested in buying the largest USB flash drive I can get consistent with still getting around 20MB/s data rate for read and the lowest possible random access seek time. I don't care much about the write time as I only expect to write the data once. Cheaper is obviously better. (and I am hoping it will be a lot quieter and cooler than a 10k rpm spindle)

The benchmarks that I have found are summarised on Toms Hardware page:

<http://www.tomshardware.co.uk/data-transfer-on-the-run.review-1305-10.html>

All of the drives reviewed there are too small for the data I need to store. My bog standard no-name 1GB manages 12MB/s read rate and that is too slow for what I want to do. It is also much too small. The seek time is also important as I expect the vast majority of accesses to be uncorrelated and random.

I was considering the Corsair 8GB or 16GB basic blue units, but I was a bit alarmed at the apparently slow ~30ms random access time shown for their smaller drives cf others like Kingston, Crucial and Memina in at around <1ms. I have also seen a couple of user reviews where people said the 16GB unit was much slower than the 8GB – but they may have been mistaken since others seem not to have a problem.

This isn't for Vista so I don't care at all if the drive is readyboost compatible or not.

Thanks for any suggestions or enlightenment. I don't like buying a pig in poke.

Anyone care to benchmark their thumb drive(s) with hbenchw 3.6 for read write MB/s and seek time in ms ?

Cheap ones give something like 11 5 1 (read write seek). Really bad junk ones 4 4 2.

Regards,
Martin Brown

.

Re: I'm designing a Thumb Drive